Index to Volume 4 ■ 1997

January/February, pages 1–78; March/April, pages 79–164; May/June, pages 165–258; July/August, pages 259–326; September/October, pages 327–398; November/December, pages 399–526.

SUBJECTS

A

Accuracy, studies evaluating, 342
Acute lymphocytic leukemia, use of informatics in caring for patients with, 285
American College of Medical Informatics, fellows of, 1996, 152
first annual Werley Award, 161
foreign associates of, 1996, 154
Morris F. Collen Award, 155
President's Awards, 161
American Health Information Management Association (AHIMA), 442
American Medical Informatics Association, 279, 442
policy of on documents for circulation, position papers, and policy statements, 483
American Nurses Association, 222, 442
AMIA News, 72, 163, 257, 325, 396, 525
Anatomy information systems, evaluation of, 165
Architecture, of TLC system, 413
Arden syntax, 382
Articles, authors' responsibilities in writing for *JAMIA*, 394 (editorial)
Association of Academic Health Sciences Libraries (AAHSL), 442
Atlas, on-line, 327
Authors, responsibilities of in writing for *JAMIA*, 394 (editorial)
Automatch, uses of in linking databases, 233
Automation, in detection of tuberculosis, 376

B

Book review, 136
Brain Mapper, 165

C

Center for Healthcare Information Management, 442
Centers for Disease Control, criteria for detecting tuberculosis, 376
C-FIND service, 199
Chronic illness(es), use of informatics in treating patients with, 285
Chronic obstructive pulmonary disease (COPD), 313
Classification, by Read codes, 38
Clinical coding schemes, phase II evaluation of, 238
Clinical Terms Project, 38
Clinical trials, distribution of over World Wide Web, 25
Colitis, Internet survey of patients with, 426
Common Object Request Broken Architecture (CORBA), 436
Communications, distributed, 125
Computer(s), analysis of, 138
factors affecting usage of, 138
patient acceptance of, 285
physician acceptance of, 285
problems posed by translating free-text to, 213
use of in assessing patient preferences, 49
use of in generating critiques of testing orders, 511
use of in generating reminders, 364
use of in interviewing patients, 49
use of in tracking surgical services, 125
use of in treating deep vein thrombosis, 49
Computer-based patient records, 238
Computer-based record systems, 222
Computerized patient records, compared with paper records, 342
summary of, 342
Confidence intervals, with Markov model, 301
Confidentiality, methods for improving, 458
of health care data, 279
of medical data, 340
Corollary orders, 364
Critiques, computer-generated, 511
in natural language, 473

D

Data, accuracy of, 342, 376
causes of inaccuracies in, 342
clinical transport of, 213
emergence of standards in, 322 (editorial)
islands of, 213
lossy, 222
role of HL7 in transport of, 213
role of standards in transporting, 213
security of, 340
Database(s), evolution of, 184
linking techniques for, 233
of images, 184
search strategies for, 184
text of, 184
Decision making, 266
guideline models for simplifying, 382
tables for, 382
use of computers in, 49
with Markov model, 301
Decision models, confidence intervals for, 301
uncertainty in, 301
Design table, model for, 382
Decision-support systems, 340
Deep vein thrombosis, using computers to assess outcomes in, 49
Deming management theory, 79
Demographic data, used to predict mortality rates, 313
Digital Anatomist Distributed Framework, 165
Digital Anatomist segmentation project, 327
Digital Imaging and Communications in Medicine (DICOM), classes of, 199
Disks, as storage media, 199
Dose-volume histograms, 327

E

East Carolina University School of Medicine, telemedicine program at, 1
Electronic mail, 138
Electronic medical records (EMRs), accuracy of, 376
overcoming barriers to, 213
use of in detecting tuberculosis, 376
use of to predict mortality rates, 313
Encryption, 259
EON architecture, 382
Errors, in computerized medical records, 342
of omission, 364
Evaluation, guidelines for, 94
models of, 94
of medical systems, 94
Expert system(s), 473

F

Federal Communications Commission (FCC), 399

Feedback, use of in Read codes, 465
Food and Drug Administration (FDA), 442
Foraging, for information, 285
Formatting, of digital images, 199

G

Gantt charts, use of for scheduling surgery, 125
Geometric constraint networks, 165
Guidelines, for clinical practice, 382
knowledge representation, decision tables for, 382

H

Health care, electronic records in, 259
Health care system, proposals for improving, 340
Health records, computer-based, 340
Help systems, 442
HL7, standard for transporting clinical information, 213
Home health care, classification of, 222
use of technology in, 285
Home page, for survey of patients with colitis, 426
Hot topics, in NetWellness project, 6
Human Brain Project, 165
HyperText Markup Language (HTML), 6, 18, 25, 279, 426, 436

I

Images, cataloging of, 184
classification of, 184
database requirements of, 184
digital formatting for, 199
in planning radiation therapy, 327
interpretation of, 199
object-oriented methods for retrieval of, 184
problems in classifying, 184
requirements for databases of, 184
retrieval of, 165, 184, 199
segmentation of, 327
standards for transmitting of, 213
text versus, 184
three-dimensional, 165
ultrasound, 184
Imaging, 165
browsing through, 165
challenges of definition and integration, 252 (editorial)
digital storage and retrieval of, 165
electronic atlas for, 165
knowledge-based approach for management of, 165
Imaging devices, need for interoperability among, 199
vendor-supplied conformance statements for, 199
Imaging procedures, supported by DICOM, 199
Imaging systems, evaluating, 94
Industrial processes, as basis for delivery of information, 266
Informatics, changes likely to occur in, 322 (editorial)
implementing systems of, 79
home care, 285
treating patients with chronic diseases, 285
Internet and, 279
managing change in, 79
need for, 322 (editorial)
people and organizational issues in, 150
strategy for implementing, 79
user resistance to, 79
user satisfaction and dissatisfaction with, 79
Information, access to, 6, 138
areas for improvement in delivery of, 138
as inventory, 266
constraints on access to, 266
delivery of based on industrial processes, 266
emotional character of, 285
generating, 473
impediments to accessing, 112
just-in-time delivery of, 266
management of, 79
preferred sources of, 285
security of, 458
storage and retrieval of, 266
ways to measure retrieval of, 266
Information resources, structural, 165
use of, 138
Information systems, acceptance of by users, 150
measuring successful implementation of, 150
Information technology, 259
diffusion of, 102
handling increased demand for, 138
management of, 112
roles of vendors and users in, 112
transfer of to another country, 112
variables in diffusion of, 102
Infrastructure, 399
Integrated Advanced Information Management Systems (IAIMS), 57
and Digital Anatomist Framework, 165
at Yale University, 138
Integrated Services Digital Network (ISDN), 399
in videoconferencing, 18
Interactive Home Health Care Program, 14
Internet, and informatics, 279
clinical information stored on, 1
quality-of-life research on, 426
telemedicine and, 1
Interoperability, among imaging devices, 199
IVORY system, 473

J

Jefferson Cancer Network, 18
Journal of the American Medical Informatics Association (JAMIA), authors' responsibilities in writing for, 394 (editorial)
Just-in-time, as model for information delivery, 260

K

Kansas, use of telemedicine in rural parts of, 14
Knowledge-based approach, for managing medical images, 165
Knowledge-based management, symbolic, 165
Knowledge-modeling, 382

L

Large Scale Vocabulary Test (LSVT), 484
Leadership, as factor in implementing new technologies, 79
Learning, self-directed, 57
Librarians, assessing needs of, 57
in health sciences, 57
learning paradigm for, 57
rating of skills needed by, 57
skills assessment of, 57
Libraries, medical, 57
Linear fitting, 305
Linkage, specificity, 233

M

Magnetic resonance imaging, 184
Maintenance, of Read codes, 465
Mapping, 238
Markov model, 301
Medical Library Association (MLA), 442
Medical records, computer based, 313
implementing electronic systems for, 213
Medical systems, evaluation of, 94
MEDLINE, 6, 138, 342
Metathesaurus, 165
Model, for decision table, 382
Model for Assistance in the Orientation of a User within Coding Systems (MAOUSSC) project, 356
Monte Carlo simulation, 301
Mortality, using computer-based records to predict risk of, 313

N

National Death Index, 233
National Institute of Standards and Technology (NIST), 436
National Library of Medicine (NLM), 484
National Telecommunications and

Information Administration (NTIA), 6
Natural language, 473
NetMenu, use of at Yale University, 138
NetWellness project, 6
Network architecture, for anatomy information system, 165
Network server(s), development of, 356
Network(s), constraints on in telemedicine, 18
distributed image computing and, 327
modifications to, 266
Nomenclature, decomposition of, 342
Nursing classification systems, 222
Nursing interventions, classification of, 222
Nursing Minimum Data Set, 222

O

Object-oriented queries, 184
Omaha System, 222
On-line anatomy atlas, 327
Organizations, attributes of, 102
behavioral theories of, 102
introducing new technologies to, 79
leadership in, 79
survey form used to elicit attributes of, 102

P

Patient(s), maintaining information about, 125
use of computers to interview, 49
Patient administration system, 112
Patient care, role of computer-generated reminders in, 364
Patient records, computer-based, 38, 342
linking between hospital and government databases, 233
Physicians Research Network (PRN), 25
Plaintalk, 49
Practical Extraction and Report Language (PERL), 342
Printer(s), management of, 199
Privacy, electronic medical records and, 259
issues in, 279
use of encryption to ensure, 259
Process models, 301
ProShare, in telemedicine, 18
Public access sites, for NetWellness project, 6
Public telecommunications network, upgrading, 399

Q

Q-methodology, 501

R

Radial contour models, 165
Radiation treatment planning (RTP) system, 327
Radiographs, evidence-based critiquing of orders for, 511
Reactive airways disease, 313
Read Codes, 38, 238, 465, 484
Read Thesaurus, 38
Regenstrief order-entry system, 213
Reminders, computer-generated, 364
Research, use of Q-methodology in, 501
Resource Coordination for Surgical Services (RCSS), 125
Reviewers, for volume 4, 524
Rule sets, consistency of, 382

S

Scheduling, use of computers as aid in, 125
Searching, of databases, 184
Security, in Physicians Research Network, 25
methods for improving, 458
of data on Internet, 279
of medical data, 340
on World Wide Web, 279, 342
Semantics, categorization by, 356
Software, for Digital Anatomist Framework, 165
for synthetic voice generation, 49
management of, 165
platform for NetWellness Project, 6
use of in determining treatment plans, 305
use of in identifying patient deaths, 233
Software system(s), algorithm to use in regulation of, 442
monitoring and regulation of, 442
Spatial knowledge base, 165
Standard General Markup Language (SGML), 436
Standards, development of, 340
need to adopt, 213
used to transport data, 213
Storage Commitment Service Class, 199
Surgical scheduling, use of computers as aid in, 125
Surgical services, use of computers in tracking, 125
Surveys, conducted online, 138
Symbolic knowledge base, 165
Systematized Nomenclature of Human and Veterinary Medicine (SNOMED), 222

T

Technology, appropriate tools for, 522 (editorial)
diffusion of, 112
introduction of in academic centers, 102
transfer of, 112
uses of in home health care, 285
Telecommunications Act of 1996, 399
Teleconferencing, 1
Tele-education, 340
Telehealth, 68, 69
Telemedicine, 340, 399
and the Internet, 1
clinical examples of in-home applications, 14
constraints on design of, 18
costs and savings of, 399
definition of, 1
enlisting patient participation in, 18
home applications of, 14
image storage and retrieval in, 36
implementing in a community cancer network, 18
network components of, 1, 18
use of in diagnosis and treatment of cancer, 18
use of in rural areas, 14, 36
use of ProShare software in, 18
use of Windows NT in, 14
user-friendly design of, 1
videoconferencing in, 36
Telephone-Linked Care (TLC), 413, 522 (editorial)
Term(s), atomic-level sets of, 222
searching for in databases, 342
Terminology, characteristics of formal type of, 222
evaluation of, 484
problems in precise use of, 184
Text, sources of, 238
versus images, 184
Thesaurus, developing, 38
Three-dimensional images, 165, 184
Total Quality Management (TQM), 79
Tuberculosis, detected by automated methods, 376

U

Unified Medical Language System (UMLS), 222, 238, 254 (editorial), 279, 356, 484
Unified Medical Language System Metathesaurus, 465, 484
University of Cincinnati Medical Center, 6
Utilities, use of computers in assessing, 49
Utility elicitations, 426

V

Videoconferencing, and telemedicine, 36
in rural settings, 36
interactive, 36
over ISDN networks, 18
Virtual visits, 413
Vocabulary(ies), concepts needed for, 484
in nursing interventions, 222
in Unified Medical Language System Metathesaurus, 222
need for standardized, 254 (editorial)

Voice commands, software for generating, 49
Voice-enabled system(s), 436

W

Windows NT, and NetWellness project, 6
use of in telemedicine, 14
Workstations, in Physicians Research Network, 25
public access types, 6, 138, 139
World Wide Web (WWW), 18, 138, 279, 305, 356, 426, 442, 458
and NetWellness Project, 6
atlas of images on, 165
designing site for, 426
development of server for, 356
distributing clinical trial protocols over, 25
managing clinical information on, 71
security on, 342

AUTHORS

Afrin, L. B., 25
Ash, J., 102
Austin-Seymour, M. M., 327
Balch, D. C., 1
Bates, D. W., 511
Bidgood, W. D., 199
Blyth, A. J. C., 79
Bodenreider, O., 356
Bos, J. M., 436
Botti, G., 356
Braude, R. M., 150
Brennan, P. F., 522
Brinkley, J. F., 165
Brown, A. N., 233
Brown, P. J. B., 38, 465
Burgun, A., 356
Calarco, P., 138
Campbell, J. R., 238
Carpenter, P., 238
Catalano, R., 18
Cawsey, A. J., 473
Cheh, M. L., 484
Cher, D. J., 301
Chute, C. G., 238
Cimino, J. J., 279
Cohn, S., 238
Collen, M. F., 155
Comis, R. L., 18
Connelly, D. P., 266
Cushman, R., 259
Dampney, C. N. G., 112
Darmoni, S. J., 71
Delamarre, D., 356
Denier, P., 356
Dev, P., 152
Dixon, B. J., 79
Duncan, J., 184
Elson, R. B., 266
Elstein, A. S., 256
Faughnan, J. J., 266
Fieschi, M., 356
Fiskio, J., 511
Frawley, S. J., 138
Friedman, C. P., 256
Friedman, R. H., 413
Gardner, R. M., 442
Gaskins, D. L., 313
Gaumer, G., 36
Giles, Jr., D. E., 57
Giuse, D. A., 57
Giuse, N. B., 57
Gorry, G. A., 155
Grajek, S. E., 138
Greenes, R. A., 155
Gremy, F., 152
Grigsby, J., 36
Guard, J. R., 6
Haag, D., 6
Halamka, J. D., 458
Hammond, W. E., 254
Harpole, L. H., 510
Hassol, A., 36
Hay, W. H., 256
Henry, S. B., 222
Hersh, W., 71, 152
Hogan, W. R., 342
Horii, S. C., 199
Hripcsak, G., 376
Huber, J. T., 57
Humphreys, B. L., 68, 484
Irvin, C., 36
Jaffe, C. C., 184
Jain, N. L., 376
Jones, M. G., 399
Jones, R. B., 473
Kafantaris, S. R., 57
Kalet, I. S., 327
Kaplan, B., 94
Kaya, B., 6
Khorasani, R., 511
Knirsch, C. A., 376
Kohler, F., 356
Kulilowski, C. A., 252
Kuperman, G., 511
Kuppuswamy, V., 25
Le Beux, P., 356
Lenert, L. A., 49, 301, 426
Leveque, J. M., 356
Lindberg, C. C. S., 14
London, J. W., 18
Lorenzi, N. M., 79
Lukacs, B., 356
Mahoney, D. M., 413
Marine, S. A., 6
Marinucci, D., 18
Masys, D. R., 69, 136
May, J. H., 125
Mayo, J. B., 436
McCray, A. T., 484
McDonald, C. J., 213, 364
McKay, J., 138
Mead, C. N., 222
Miller, M. D., 57
Miller, P. L., 138
Miller, R. A., 57, 442
Mintzer, C., 36
Morris, T. A., 6
Morton, D. E., 18
Mrad, R., 426
Murphy, G., 256
Murray, M. D., 313
Newman, T. B., 233
Oberlin, P., 356
Overhage, J. M., 364
Ozbolt, J., 161
Pablos-Mendez, A., 376
Pao, V., 426
Patel, V. L., 152
Paton, J. A., 138
Pouliquen, B., 356
Powell, R. A., 436
Price, C., 38, 465
Prior, F. W., 199
Puskin, D., 36
Quigley, K. A., 436
Riley, R. R., 79
Rind, D., 458
Robinson, D., 465
Roderer, N. K., 138
Rosenthal, D. F., 436
Rosse, C., 165
Rozenblyum, L., 413
Saba, V. K., 162
Safran, C., 458
Sauer, C., 112
Schick, L., 6
Schulz, E. B., 38, 465
Shiffman, R. N., 382
Shoemaker, S., 6
Slater, B., 25
Sneiderman, C., 238
Soetikno, R. M., 49, 426
Sokolowski, R. A., 436
Southon, G., 79, 112
Stead, W. W., 57, 394
Stollerman, J. E., 413
Strum, D. P., 125
Stuart, R. K., 25
Sullivan, J. E., 138
Szolovits, P., 458
Tagare, H. D., 184
Teel, M.-M., 436
Teich, J. M., 152
Tetzlaff, L., 285
Thirion, B., 71
Tichenor, J. M., 1
Tierney, W. M., 313, 364
Tsipis, G., 6
Tuttle, M. S., 322
Valenta, A. L., 501
van Bemmel, J. H., 152
Van Syckle, D. E., 199
Vargas, L. G., 125
Wagner, M. M., 342
Warner, H. R., 155
Warren, J., 238
Weber, B. L., 473
West, R. T., 152
Wigger, U., 501
Wolf, F. M., 256
Zhou, X.-H., 313, 364
Zielstorff, R. D., 162